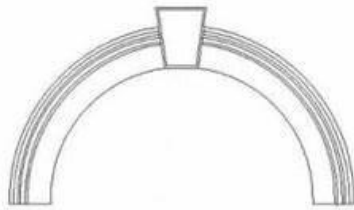


# Arc de Triomphe

When we last parted, the old closet area and upper shelf had been completely torn out, the bench installed perfectly level (to 1/16<sup>th</sup> inch) revealing the house engineering anomaly of the not-so-perfectly-level floor. The upper shelf has been partially installed and the plan was to install a simple fascia board on the shelf front.

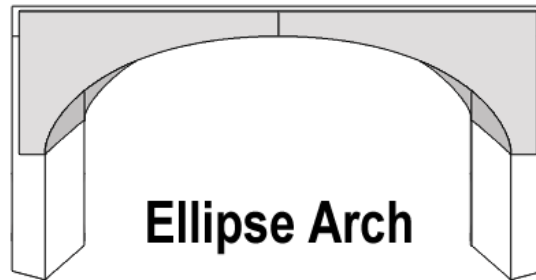
But nooooo..... my architecture and design training spoke loudly (with considerable help from Captain Morgan).

I am partial to the arch with keystone as an attractive, strong and functional design that, when judiciously applied, gives an “old world” feel to the room or whatever it is used on. For our application the circle arch simply will not work. I’ll have to stretch it out as an ellipse arch but I will be adding a keystone.



**Arches & Circles**

Example 1.



**Ellipse Arch**

Example 2.



Case in point: This is a circular arch with a keystone I built under our house in the Keys and I used another on the sideboard on the right



So, we start with reinstalling the shelf, only level this time. Bead board will go on the underside also



The arch will be cut from one construction grade board of local pine 2"x 8"x 10'. To mark a uniform arch curve, I used a long piece of even grained pine cut off of an upper shelf board when I reduced the depth of the shelf. I then took measurements and adjusted the wood piece so everything is symmetrical.



The keystone area was marked off in the exact center



A jigsaw was then used to cut the arch and keystone profile.



The keystone face and upper moulding base cut to size



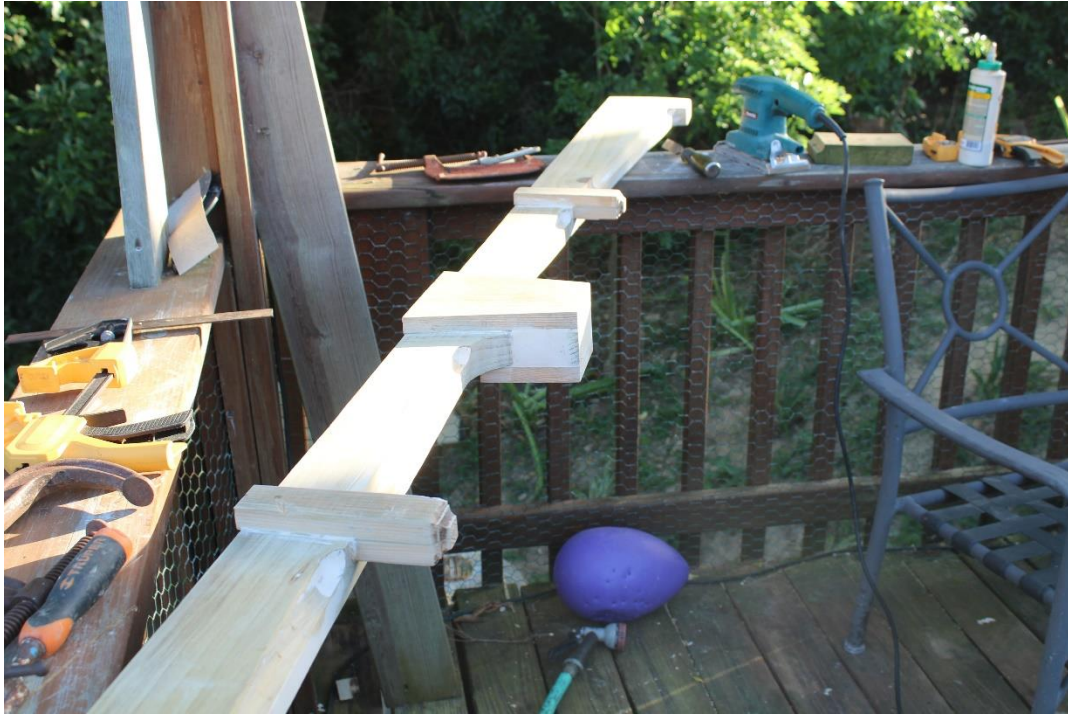
Disaster struck and a whole day was lost when the pin guide on the deep cove router bit came off and deeply gouged the wood. Had to insert a 2"x 2"x 12" piece of wood and re-contour the arch.



Finished repair came out well



Glueing Keystone front face. Back face was the same



Inner “spindles” in place for the cantilever shelf supports.



Outer spindles and upper moulding base glued in place.



Spindle routing detail



Detail routing complete and upper moulding in place



Near finished



Minor detailing, finish sanding and ready for stain and varnish unless an additional creative epiphany rears its time-consuming countenance.



That's all for now. Things are moving faster and I hope to have the lab partially operational by next issue. Then, I promise to get back to the riveting, action packed, solemn hilarity you have become accustomed to.

Comments? OK, [gwilhelm@metsonmarine.com](mailto:gwilhelm@metsonmarine.com)

V/r

G Joseph Wilhelm

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The previous episodes in the series can be found in the  
Microscopy-UK Library, section 'General'.